

1. An apparatus for cleaning elongated and cylindrical filters comprising an enclosed cleaning chamber, said filter having an open end and a closed end, means within said chamber for supporting said closed end of said filter in a freely rotating cup and means for supporting said open end of said filter on a cone-shaped element, means for driving said cone-shaped element to thereby rotate said filter,

means for jetting air onto an outer circumference of said filter while it is rotating, said means for jetting air is adjustably supported inside said cleaning chamber in close proximity to said outer circumference,

means for lateral moving said means for jetting air along the length of said filter in a back and forth motion, said means for driving said cone-shaped element and said means for jetting air are both located on the outside of the cleaning chamber.

2. The apparatus of claim 1, wherein said jetting means comprises two air jets with each of said jets being slanted downwardly and forwardly of the length of said filter but in opposite directions.

3. The apparatus of claim 1, wherein said means for adjustably supporting said jetting means comprises a parallelogram type element to keep said means for jetting at a top dead center of said filter regardless of the diameter of said filter.

4. The apparatus of claim 3 including means for keeping said jetting means at an adjusted position relative to an outer circumferential surface of said filter.

5. The apparatus of claim 1, wherein said means for lateral moving said means for jetting includes a rack and pinion gear.

6. The apparatus of claim 1, wherein said means for adjustably supporting said means for jetting includes two plates which are movable relative to each other and which two plates carry said means for jetting at a downward end, said two plates have means for arresting said two plates relative to each other and relative to a proximity of a circumference of said filter.

7. The apparatus of claim 1, wherein said means for jetting has at an upper end thereof an upper support plate, said upper support plate extends through a means for sealing said interior of said chamber from the ambient air on the outside, said upper support plate is mounted on a slidable carriage constituting the means for laterally moving said means for jetting the air.

8. The apparatus of claim 7, wherein said means for sealing are opposing brushes through which said upper support plate slides.

9. The apparatus of claim 1, wherein said freely rotating cup is supported on a backup plate, said backup plate having means for roughly adjusting said backup plate to any given length of said filter.

10. The apparatus of claim 9 including means for finely adjusting said freely rotating cup to any given length of said filter after operating said means for roughly adjusting.

11. An apparatus for cleaning an elongated and cylindrical filter, said apparatus comprising an inner cleaning chamber being hermetically sealed from an outside ambient air, said filter having an open end and a closed end,

Means for rotating said filter in said cleaning chamber,

Means for inducing a negative pressure within said cleaning chamber,

means for inducing a positive pressure within said rotating filter through said open end,

means for supplying compressed air onto an outside circumference of said rotating filter, said means for supplying said compressed air is reciprocating laterally along the length of said filter in a back and forth manner.

12. The apparatus of claim 11 including opposing brush means constituting said hermetically sealing.

13. The apparatus of claim 11, wherein said means for supplying said compressed air has means for driving said means for reciprocating laterally along said length of said filter.

14. The apparatus of claim 13, wherein both of said means for rotating said filter and said means for driving said reciprocating are located outside of said hermetically sealed cleaning chamber.

15. The apparatus of claim 11, wherein said means for supplying compressed air includes means for adjusting said means for supplying air relative to an outer circumference of said filter.